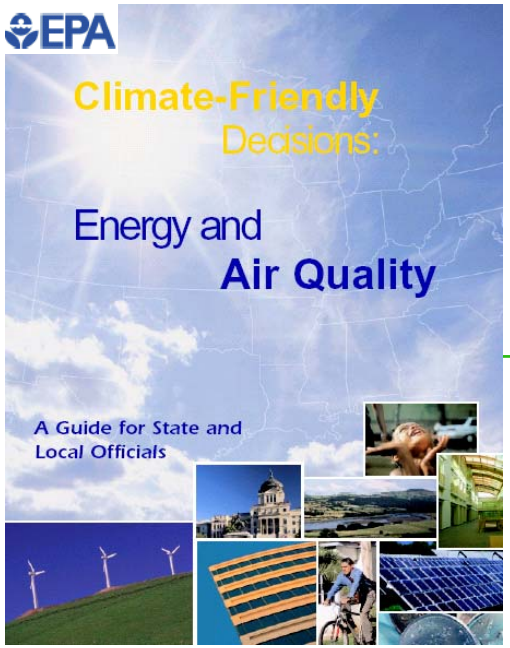


Climate-Friendly Decisions: Energy and Air Quality

A Guide for State and Local Officials

5th State and Local Climate Change Partners' Conference

November 20-22, 2002

Steve Dunn

State & Local Capacity Building Branch

Environmental Protection Agency

Climate-Friendly Decisions

Energy and Air Quality

- **New EPA Guidebook provides a decision-making framework to help state and local officials make climate- friendly decisions**

- **Identifies nine opportunities to reduce GHGs through state and local programs and policies**

Now

- Energy
- Air Quality

Future

- Transportation / smart growth
- Public facilities and infrastructure
- Other

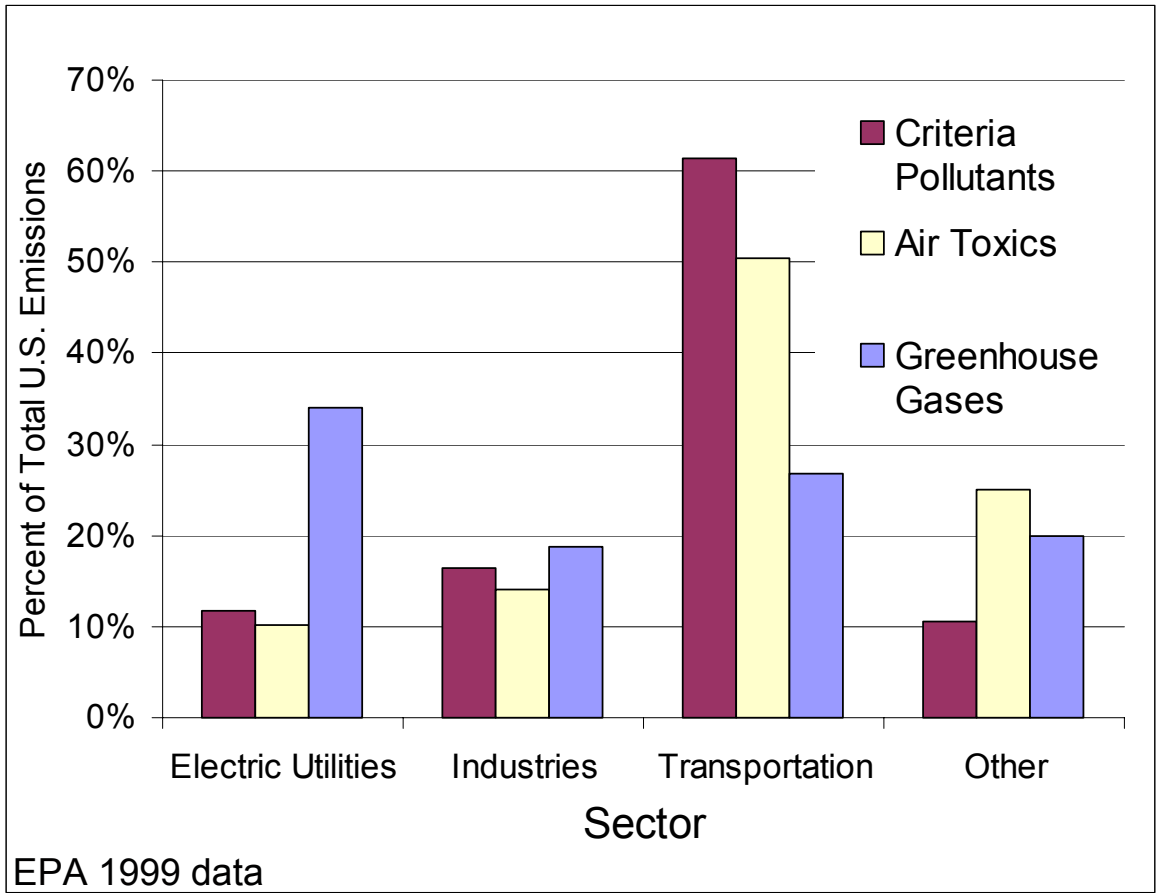
- **Provides detailed examples with sources of additional information and tools**

EPA

Climate-Friendly Decisions

GHGs and Air Pollutants

- **Major sources of criteria pollutants and air toxics also emit GHGs**
- **The Guide identifies strategies that reduce both**



Climate-Friendly Decisions

Decision Makers

- State Energy Offices, Public Utility Commissions
- State and Local Air Agencies
- Departments of Commerce and Economic Development
- Public and privately owned utilities
- State legislatures
- NGOs and State & Local Associations

Climate-Friendly Decisions in the Guide

Energy

- Adopt stringent building energy codes
- Encourage renewables, energy-efficient technologies, and combined heat and power in electricity generation
- Encourage development and purchase of clean distributed generation units
- Implement renewables portfolio standards
- Implement or preserve public benefit funds
- Allow net metering
- Inform consumers about electricity fuel sources and emissions

Air Quality

- Consider reducing GHG emissions when selecting State Implementation Plan (SIP) strategies
  - "upstream" energy efficiency
  - renewables
- Choose GHG-reducing technologies in Best Available Control Technology and Reasonably Available Control Technology (BACT/RACT) decisions

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Climate-Friendly Decisions

Energy

Strategies

- Increase energy efficiency in buildings
- Promote advanced, high-efficiency technologies
- Remove market barriers to renewable energy

Benefits

- Lower energy costs
- Improve air quality
- Improve system reliability

DOE / NREL

EPA

Climate-Friendly Decisions -- Energy

Encourage Renewables, Energy-Efficient Technologies & Combined Heat & Power in Electricity Generation

- Promote advanced power generation technologies:
  - renewables
  - efficiency improvements
  - combined heat and power
  - distributed generation

DOE / NREL

Wind power - California

(

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Climate-Friendly Decisions

Air Quality

Energy

- Adopt stringent building energy codes
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Air Quality

- **Consider reducing GHG emissions when selecting State Implementation Plan (SIP) strategies**
- **Choose GHG-reducing technologies in Best Available Control Technology and Reasonably Available Control Technology (BACT/RACT) decisions**

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Climate-Friendly Decisions

Air Quality

Strategies

- Incorporate energy efficiency and renewables into air quality plans
- Choose less energy intensive pollution control technologies

Benefits

- Reduce criteria pollutants, air toxics and GHGs
- Lower compliance costs
- Save energy

Climate-Friendly Decisions

Reduce GHGs When Selecting SIP Strategies

- **Consider GHGs when developing State Implementation Plans (SIPs)**
  - **Incorporate allowances for renewable energy and energy efficiency (NOx SIP Call States)**
  - **Incorporate energy efficiency measures into air pollution control strategies**
    - e.g., regional haze

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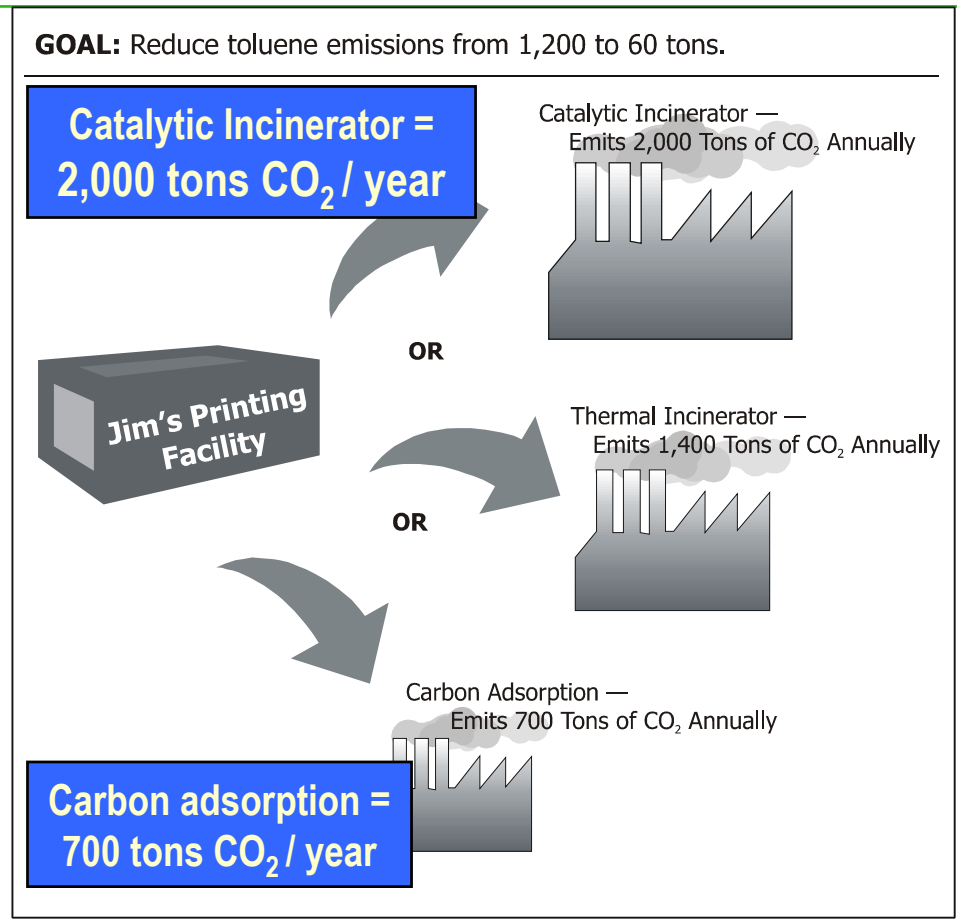
Climate-Friendly Decisions
Choose GHG-Reducing BACT/RACT Technologies

- Choice of control technology can increase or decrease GHG emissions
- Choose strategies that lower GHGs and control criteria pollutants



Climate-Friendly Decisions

Summary and Next Steps

- Helps public officials identify and implement "climate-friendly" strategies
- Employing the nine strategies described in the guide will reduce GHGs with multiple benefits
  - Save energy and improve reliability
  - Improve air quality
- Available Winter '02
  - Sign-up sheet at exhibit booth
- Future topics: transportation, smart growth, public works and infrastructure

EPA

Contact Information

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